

ZHIVOV, Lev Grigor'yevich; GUSAROVA, Valentina Petrovna; GLADILIN, L.V.,  
doktor tekhnicheskikh nauk, retsenzent; MARTYNOV, G.P., inzhener,  
retsenzent; TRIFONOV, Yu.T., inzhener, retsenzent; TARASOV, L.Ya.,  
redaktor; SMOLDYREV, A.Ye., redaktor izdatel'stva; VAYNSHTEYN, Ye.B.,  
tekhnicheskiiy redaktor

[Remote control and automation of scraper loader hoists] Distantion-  
noe i avtomaticheskoe upravlenie skrepernymi lebedkami. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957.  
222 p. (MIRA 10:9)

(Automatic control) (Excavating machinery)

TRIFONOV, Yu.V., elektromekhanik

Device for checking automatic ticket reading machines. Avtom.,  
telem. i sviaz' 9 no.8:27 Ag '65. (MIRA 18:9)

1. Simferopol'skaya distantziya Pridneprovskoy dorogi.

TRIFONOV-YAKOVLEV, A.A.; NIKOL'SKIY, K.K.

High-resistance voltmeter for measuring the difference of potential  
between line and ground. Vest.sviazi 20 no.3:10-11 Mr '60.  
(MIRA 13:6)

1. Starshiye inzheneriy TSentral'nogo nauchno-issledovatel'skogo  
instituta svyazi.  
(Voltmeter)

AUTHOR: None given

30V/106-58-9-16/17

TITLE: {Author's Certificates}(Avtorskiye svidetel'stva)

PERIODICAL: Elektrosvyaz', 1958, Nr 9, p 78](USSR)

ABSTRACT: S.I. Kitaev, A.M. Polyukovskiy, "Method of Improving the Utilization of the Frequency Band of a Communication Channel when Sending Picture Signals"; R.A. Kudryavtsev, "Method of Amplitude Modulating Picture Signals and an Arrangement for Achieving the Method"; A.G. Muradyan, M.N. Stoyanov, A.A. Trifonov-Yakovlev, "Method of Compressing Subscribers' Lines at a Main Telephone Exchange"; E.V. Zelyakh; Ya.I. Velikin, "Electrical Blocking Filter"; D.V. Ageyev, V.V. Malanov, K.P. Polov, "Audio Frequency Power Pulse Amplifier"; L.N. Korablev, "Electronic Voltage Stabilizer"; B.M. Vul, A.P. Shotov, "Method of Preparing the Lead from the Middle Part of a Germanium Triode"; A.I. Ardab'yevskiy, L.D. Bakhrakh, L.N. Deryugin, "Method of Swinging the Beam of a Linear Aerial"; A.I. Ardab'yevskiy, L.N. Bakhrakh,

Card 1/2

SOV/106-58-9-16/17

Author's Certificates

L.N. Deryugin, "Method of Electrically Swinging a Beam  
using a Dispersive Structure"; B.B. Lagov'yev,  
"Waveguide Transformer".

Card 2/2

TRIFONOV-YAKOVLEV, D. A., inzh.; AMATOV, N. N., kand. tekhn. nauk;  
TOKAREV, M. V., inzh.

Testing of an experimental soil packing machine with pneumatic-impulse action. Energ. stroi. no. 16:27-32 '60. (MIRA 16:12)

1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

TRIFONOV-YAKOVLEV, D.A., inzh.

Field tests of a pulsating installation for the compaction of loose  
saturated sands. Trudy Nauch.-issl.sekt.Mosk.fil.Inst."Orgenergostroi"  
no.3:3-18 '59. (MIRA 14:7)

(Soil stabilization)

14(6)

SOV/112-59-1-471

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 62 (USSR)

AUTHOR: Trifonov-Yakovlev, ~~D. A.~~

TITLE: Sandy-Soil Compacting by Pulsations

PERIODICAL: Tr. N.-i. sektora Mosk. fil. in-ta "Orgenergostroy," 1957,  
Nr 1, pp 72-85

ABSTRACT: Bibliographic entry.

Card 1/1



TRIFONOVA

DISCARDIA/Microbiology - General Microbiology.

V-1

Ab Jour : Ref Zhur - Biol., No 5, 1958, 19348

Author : Trifonova, Yemlov, Koen

Inst : -

Title : Variability of Dysentery Bacteria Under the Influence of Polyvalent Phage.

Orig pub : Tr. Respubl. n.-i. in-t epidemiol. i mikrobiol., 1956, 5, 41-47

Abstract : No abstract.

Card 1/1

TRIFONOVA, A.

SOURCE (in caps); Given Names

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: not indicated

Source: Sofia, Khigiena, No 2, Mar/Apr 61, pp 31-32

Data: "The Etiologic Role of Pathogenic Coli Bacteria in  
Infant Gastro-Intestinal Diseases."

Co-authors: -

ATANASOVA, S.

KOEN, R. ~

LOLOVA, M. ~

BOYUKLIEVA, B.

DOTSOVA, M. ~

STEFANOV, S.

BULGARIA/General Problems of Pathology. Immunity.

U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37041.

Author : Khadzidinova, D., Trifonova, A., Danailova, L.,  
Koen, R.

Inst :

Title : The Effect of the Nervous System Upon Formation of  
Agglutinins.

Orig Pub: Tr. Respubl. n-1, in-ta epidemiol i microbiol., 1955,  
2, 1-15.

Abstract: Stimulation of the CNS with caffeine (0.05g/kg every  
6 hours subcutaneously during 1 or several days) after  
a single injection of typhoid, paratyphoid B and  
dysentery and triple vaccine, produced an increase  
in the agglutinins titer.

Card : 1/1

MANOLOV, D.G.; TRIFONOVA, A.; GHINCHEV, P.

A new lactose-fermenting species of the Shigella genus. J. hyg.  
epidem. 6 no.4:422-427 '62.

1. Institute of Epidemiology and Microbiology, Sofia.  
(SHIGELLA) (LACTOSE)

TRIFONOVA, A.

"Problem of perfecting the bacteriological diagnosis of intestinal infections; biological properties of the cultures of the Alkalescens-Dispar group, isolated in Bulgaria; a preliminary communication."

IZVESTIIA. SERIIA EKSPERIMENTALNA BIOLOGIIA I Meditsina, Sofia, Bulgaria, No. 2, 1957.

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

2960 Trifonova, A. A.

Rol'sostavnykh chastey krovi razlichnykh vidovzhivotnykh v pitanii chudnogo mikroba. Saratov, 1954. 12 s. 20 sm. (Mvo zdravoo'dhraneniya SSSR. Gos. nauch -issled. in-t mikrobiologii i zpidemiologii Yuzo-Vostoka SSSR ("Mikrob")). 175 ekz. Bespl. - (54-55746)

TRIFONOVA, A. A.

"The Role of the Component Parts of the Blood of Various Species of Animals in Feeding Bacillus Pestis." Cand Med Sci State Sci-Res Inst of Microbiology and Epidemiology of the Southeastern USSR ("Mikrob"), Min Health USSR, Saratov, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

KHAVKIN, M.L.; SHTUTIN, A.Ya.; LEVITSKIY, F.A.; TRIFONOVA, A.D.

Mikhail Vasil'evich Khoenko; on his 60th birthday. Ortop. travm.  
i protez. 21 no. 9:78 S '60. (MIRA 13:12)  
(KHOVENKO, MIKHAIL VASIL'EVICH, 1900-)



TRIFONOVA, A. R.

27016

Kriticheskie Periody embrional' nogo razvitiya. uspekhi sov. biologii.  
T. XXVIII. Vyp. 1, 1949, S. 154-63 Bibliogr: S. 166-68

SO: LETNIS' NO. 34

**"APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R001756620001-3**

**APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R001756620001-3"**

PROCESSES AND PROPERTIES IN FISH

CR

The physiology of differentiation and growth. The effect of asphyxia upon the development and mitotic division in fish embryo. A. N. Trifonova. Arch. sci. biol. (U. S. S. R.) 37, 767-83 (in French 783) (1935). - During development of the perch egg the  $[H^+]$  varies regularly. The period of segmentation is one of increasing acidity which remains at a raised level during the involution of the yolk, while during embryo formation the  $pH$  rises. During the period of decreased acidity the eggs are more sensitive to asphyxia, suffer a greater mortality and undergo various changes in mitotic activity, and, as a result, teratologic forms ensue. With increased acidity the sensitivity to asphyxia is less, mitosis does not occur, the mortality is lessened, and a stimulation of embryo development is observed. T. explains these differences on the basis of theories of Pasteur and Meyerhoff. W. A. P.

II I

ASD SIA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
BC										A-4									
<p>Physiology of differentiation and growth. Effect of asphyxia on development and mitotic division in fish embryo. A. N. TRIFONOVA (Arch. Biol. U.S.S.R., 1935, 37, 757-783).--The <math>P_a</math> of the perch egg decreases during the period of segmentation, remains steady during involution of the yolk, and increases during embryo formation. In the period of low acidity, eggs are more sensitive to asphyxia and undergo changes in mitotic activity whereby teratologic forms ensue. The reverse conditions obtain when acidity is high. Ch. ASA. (p)</p>																			
ASA-55 A METALLURGICAL LITERATURE CLASSIFICATION																			
SUBJECT INDEX										SUBJECT INDEX									
SUBJECT INDEX										SUBJECT INDEX									

11a

CA

NUCLEOPROTEINS AND REACTIVITY OF THE NUCLEUS. A. G. Trifonova. *Doklady Akad. Nauk S.S.S.R.* 59, 1100-72 (1948). Rootlets of sprouts of beans and onions were subjected to the action of 1 M urea or 0.02-0.05% chloral hydrate; both plants gave similar response; in 30-90 min. for urea and 2-5 hrs. for chloral hydrate, at which point only small growth retardation occurs, staining of the specimens showed a distinctly feebler staining than in control specimens. When a longer period of treatment is used (2-4 hrs. and 6-12 hrs., resp.), the growth is severely curtailed and on staining some nuclei show decreased staining, while others begin to show pyknotic symptoms; these nuclei are smaller, appear compressed and hence show a higher degree of staining; such nuclei are irreversibly damaged. A similar effect is observed on an animal specimen (hind foot membrane of a frog) which was acted upon by warm water (30-7°) for 90 min. Thus, both plant and animal specimens show two stages of tissue change: the 1st retains the ability to take up pigment with decrease of the nucleoprotein content (simulating the embryonic state), the 2nd corresponds to restriction of growth, loss of granular deposition of vital pigment (beginning of paranecrosis); the nucleoproteins in the nuclei begin to rise in this stage. Eventually the destruction of the tissues becomes irreversible. G. M. K.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

NIKOL'SKIY, V.V.; TRIFONOVA, A., prof., otvetstvenny red.; IZMODENOVA, L.A., red.

[Natural disease resistance in calves and ways of increasing  
it] O prirode estestvennoi rezistentnosti organizma teliat k  
zabolevaniyam i putiyakh ee povysheniya. Sverdlovsk, 1958.  
111p. (Akademiya nauk SSSR. Ural'skii filial, Sverdlovsk.  
Institut biologii. Trudy, no.10) (MIRA 11:12)  
(Calves) (Immunity)

KHARCHENKO, V.S.; TRIFONOVA, A.D.

Anomaly of the external meniscus of the knee joint in a child. Ortop.,  
travm. i protez. 26 no.7:57-58 J1 '65. (MIRA 18:7)

1. Iz Donetskogo instituta travmatologii (direktor - prof. T.A.Revenko).  
Adres avtora: Donetsk (obl.) ul. Artema, d.106, Institut travmatologii.

TRIFONOVA, A.D.

Injuries of the menisci in miners; according to materials of  
the Stalingrad Province Traumatological Hospital. Trudy Ukr.  
nauch.-issl. inst. ortop. i travm. no.15:199-202 '59  
(MIRA 16:12)

1. Iz oblastnoy travmatologicheskoy bol'nitsy (glavnyy vrach  
zasluzhennyy vrach UkrSSR F.G. Dubrova) i nauchno-issledova-  
tel'skogo instituta travmatologii, ortopedii i protezirovani-  
ya (dir. - kand. nauk N.V. Novikov).



MANOLOV, D.G., d-r; TRIFONOVA, A.G.

Some supplements to the international classification system of  
dysenteric bacteria. Trudy epidemiol mikrobiol 8:1-8 '61 [publ.'62].

1. Chleny Redaktsionnoy kollegii, "Trudy Nauchno-issledovatel'-  
skogo instituta epidemiologii i mikrobiologii."

k

TRIFONOVA, A.N.

Increase in the general vitality through adaptation to the action of  
injurious agents [with summary in English]. Zhur.ob.biol. 19 no.3:  
187-201 My-Je '58. (MIRA 11:6)  
(ADAPTATION (BIOLOGY))

TRIFONOVA, A.M.

Fixation of a stain in the muscle in relation to its condition during life. Doklady Akad. nauk SSSR 85 no. 4:941-944 1 Aug. 1952.

(CML 23:3)

1. Presented by Academician A. I. Abrikosov 24 April 1952. 2. Institute of Experimental Medicine, Academy of Medical Sciences USSR.

TRIFONOVA, A.N.

Metabolism in general increase of vitality. Doklady Akad. nauk  
SSSR 86 no. 1:201-204 1 Sept 1952. (CIAM 23:3)

1. Presented by Academician A. I. Abrikosov 10 June 1952.

TRIFONOVA, A.N.;TIKHOMIROV, B.M.

~~Physiologic considerations on various conditions of tissue in chicks~~

of normal and decreased vitality. Doklady Akad nauk SSSR 85 no. 5:  
1185-1188 11 Aug 1952. (CML 23:3)

1. Presented by Academician A. I. Abrikosov 14 April 1952. 2. Institute of Experimental Medicine, Academy of Medical Sciences USSR.

TRIFONOVA, A. N.

27016. TRIFONOVA, A. N. - Kriticheskiye periody embrional'nogo razvitiya. Uspekhi  
sovr. Biologii, T. XXVIII, vyp. 1, 1949, s. 154-66- Bibliogr: S. 166-68

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

TRIFONOVA, A.N.

Nucleoproteins and their biological role in the embryonic development of fish. Izv. AN SSSR. Ser. biol. no. 1:67-74 Ja-F '55. (MLRA 8:3)

1. Gosudarstvennyy meditsinskiy institut. Kafedra obshchey biologii g. Sverdlovsk.

(FISH,

embryo, nucleoproteins in)

(NUCLEOPROTEINS, metabolism,  
embryonic fish)

(EMBRYO,

fish, nucleoproteins in)

TRIFONOVA, A. N.; TIKHOMIROV, B. M.

Physiology

Physiological basis for the different state of tissue in chicks with normal and subnormal viability. A. N. Trifonova, B. M. Tikhomirov, Dokl. AN SSSR 85 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~3~~, 2Uncl.



TRIFONOVA, A. .; TIKHOMIROV, B. M.

Physiology

Physiologic l basis for the different state of tissue in chicks with normal and subnormal viability. A. N. Trifonova, B. M. Tikhomirov. Dokl. AN SSSR 85 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953, Unclassified.

TRIFONOVA, A.N. (Sverdlovsk)

Critical periods in the development of morphogenesis and their  
biological foundations. Usp. sov. biol. 56 no.3:381-402 '63.  
(MIRA 17:5)

TRIFONOVA, A. N.

Stains and Staining (Microscopy)

Fixation of pigment in a fixated muscel depending upon the condition of the latter in vivo. Dokl. AN SSSR 85, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952 UNCLASSIFIED

TRIFONOVA, A. N.

Stains and Staining (Microscopy)

Fixation of pigment in a fixated muscle depending upon the condition of the latter in vivo. Kokl. AN SSSR 85, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November <sup>1952</sup>~~1953~~, Uncl.

TRIFONOVA, A. N.

24306

TRIFONOVA, A. N. Nukleoproteidy kletki v zavisimosti ot yeye fiziologicheskogo sostoyaniya. Nukleinovyye kisloty pri paranevroze. Trudy Akad. Nauk SSSR, T. III, 1949, S. 33-36.

SO: Letopis, No. 32, 1949.

TRIFONOVA, A.N.

"Critical Periods Of Embryonal Development." (p,154) by A.N. Trifonova (Leningrad)

SO: Progress of Contemporary Biology (Usp. Sovrem. Biol.) Vol. XXVIII, 1949 No. 1 (4)  
(July-Aug.)

TRIFONOVA, A.N.

24/49T92

USSR/Medicine - Tissue  
Chemistry - Ribonucleic Acid

Aug 48

"Ribonucleic Acid and Catabolic Tissues," A. N.  
Trifonova, Leningrad State Stomatol Inst, 4 pp

"Dok Ak Nauk SSSR" Vol LXI, No 5

Analyzes quantitative change of ribonucleic acid  
due to injury of a tissue, and compares it with  
the characteristic vital color of this tissue.

FDB

24/49T92

TRIFONOVA, A. N.

Fishes - Physiology

Metabolism in increasing general vitality. Dokl. AN SSSR 26 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953. Unclassified.



TRIFONOVA, A. N.

Muscle

Fixation of pigment in a fixated muscle depending upon the condition of the latter in vivo. Dokl.AN SSSR 85 no.4 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. Unclassified.

TRIFONOVA, A.N.; TIKHOMIROV, B.M.

Physiology

Physiological basis for the different state of tissue in chicks with normal and subnormal viability. A.N. Trifonova, B. M. Tikhomirov. Dokl. AN SSSR 85 no. 5, 1952.

Monthly list of Russian Accessions, Library of Congress, December 1952. Unclassified.

TRIFONOVA, A.T., kandidat meditsinskikh nauk

Stimulation of labor by a dilute extract of leuzea; preliminary  
report. Sov.med. 21 no.2:100-102 F '57. (MLRA 10:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B.  
Gillerson) Omskogo meditsinskogo instituta imeni M.I.Kalinina.

(OXYTOCICS

Leuzea carthamoides extract)

(PLANTS

Leuzea carthamoides extract, use for labor acceleration)

TRIFONOVA, A.T., kandidat meditsinskikh nauk

Treatment of metrorrhagia with milfoil. Akush. i gin. 32 no.4:61-63  
Jl-Ag. '56. (MLRA 9:11)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - kafedroy - prof.  
A.B.Gillerson) Omskogo gosudarstvennogo meditsinskogo instituta  
imeni M.I.Kalinina

(MENORRHAGIA AND METRORRHAGIA, ther.

Achillea millefolium extract)

(PLANTS, ther. use

Achillea millefolium extract in metrorrhagia)

USSR / Pharmacology and Toxicology. Medicinal Plants.

V-8

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 80649

Author : Trifonova, A. T.

Inst : Not given

Title : Medicinal Effect of an Extract of Bloodwort During Uterine Hemorrhaging

Orig Pub : Tr. Omskogo med. in-ta, 1957, No 21, 292-294

Abstract : For the treatment of patients (80) with uterine hemorrhagings, a alcohol extract (40°) from the root of bloodwort (1:1; I) was assigned at 40 drops 3 times a day. Observations showed a positive effect of I during adolescent and climacteric uterine hemorrhages, hemorrhages caused by inflammatory processes, and in uterine fibromas. Hemorrhages decreased after 2-3 daily doses of I, and in 4-5 days they ceased. The rate of coagulation of the blood during the treatment of I increased 46% on the average, duration of

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USSR / Pharmacology and Toxicology. Medicinal Plants.

V-8

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 80649

hemorrhaging decreased 33.5%, quantity of thrombocytes increased 40%, content of Ca in the blood - 2.1 mg%, Hb - 10%, quantity of leukocytes decreased 12%, during inflamed processes - 53%, ROE decreased 22%. Blood pressure in a majority of patients approached the normal.

Card 2/2

25

TRIFONOVA, A.T., kandidat meditsinskikh nauk

Stimulation of labor with Schisandra chinensis. Akush. i gin.  
no.4:19-22 J1-Ag '54. (MLRA 7:11)

1. Iz akushersko-ginekologicheskoy kliniki (i.o. zav. kafedroy  
dotsent V.Ye.Spirov) Omskogo meditsinskogo instituta imeni  
M.I.Kalinina.

(LABOR,

acceleration with Schisandra chinensis)

(PLANTS,

Schisandra chinensis, labor acceleration)

TRIFONOVA, Ls.

Foraminifera from the fragments included in the early Paleozoic  
breccia conglomerates in the northwest Bulgaria. This work geol  
drush 25 no.7:117-127 '64.

1. Central Administration of geologic research.



TRIFONOVA, Ekaterina

South Senonian foraminiferal species of the Maestrichtian near the  
village of Byala, Varna District. Izv Geol inst BAN 8:347-359 '60.  
(EEAI 10:5)

(Bulgaria--Foraminifera)

I 08525-67 FSS-2/ENT(1)/EEC(k)-2/FCC IJP(a) JGS/TT/GW  
ACC NR: AP6034771 (A) SOURCE CODE: UR/0362/66/002/010/1046/1054

AUTHOR: Driving, A. Ya.; Mikhaylin, I. M.; Rozenberg, G. V.; Sandomirskiy, A. B.;  
Trifonova, G. I. 4/1

ORG: Institute of Physics of the Atmosphere, Academy of Sciences SSSR (Institut  $\beta$   
fiziki atmosfery, Akademiya nauk SSSR)

TITLE: Photometric analysis of the twilight aureole photographs taken from the  
Vostok-6 spaceship  $\gamma$

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 10, 1966,  
1046-1054

TOPIC TAGS: twilight, spacecraft camera, satellite experiment, aerosol layer,  
photometric analysis, atmospheric light scattering, aureole

ABSTRACT: The procedures followed in the photometric analysis of photographs of the  
twilight aureole taken on 17 June 1963 over the South Atlantic from the Vostok-6  
spaceship, and the conclusions drawn from analysis of them are described. To a con-  
siderable extent, the findings support the preliminary evaluation of the photographs  
reported by Rozenberg and astronaut Nikolayeva-Tereshkova [Izv. AN SSSR, Fizika  
atmosfery i okeana, 1, no. 4, 1965]. The photographs were taken with a "Konvas"  
camera (focal length, 135 mm) using 35-mm 10-H film and no light filters. The MF-4  
microphotometer was used in the processing. Averaged data clearly show the existence

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UDC: 551.593.5:629.195

L 08525-67

ACC NR: AP6034771

6

of the aerosol layer at a height of about 19 km, thus verifying the earlier evaluation. Additional information as to the seasonal and geographic variations of the height structure of the layer and absolute values of the coefficient of scattering at different heights is believed necessary in order to determine the origin of the layer. Orig. art. has: 8 figures and 24 formulas.

SUB CODE: 22, 04/ SUBM DATE: 07Jun66/ ORIG REF: 010/ OTH REF: 001/ ATD PRESS: 5103

Card 2/2

LS

ACC NR: AP6001974

SOURCE CODE: UR/0362/65/001/012/1270/1278

AUTHOR: Rozenberg, G. V.; Sandomirskiy, A. B.; Trifonova, G. I.

ORG: Academy of Sciences SSSR. Institute of Atmospheric Physics (Akademiya nauk SSSR. Institut fiziki atmosfery)

31  
B

TITLE: Brightness profile of the day horizon of the planet Earth

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 12, 1965, 1270-1278

TOPIC TAGS: atmospheric optics, brightness profile, twilight, satellite experiment, day sky brightness.

ABSTRACT: A simplified method is advanced for computing the brightness of the light aureole seen from a spaceship in the daytime at the limb of a planet. Though the planet Earth is emphasized, the method may be applied to other planetary atmospheres as well. The only case treated is one where all the regions of the atmosphere cut by the line of vision are in the hemisphere illuminated by the sun, i.e., the day horizon. The influence of various factors on the vertical and horizontal brightness structure of the light aureole is discussed. Specifically, the effect on the computations of two aerosol layers located at heights of about 11 and 19 km is shown graphically. Data obtained from spaceships on aerosol distribution during twilight were used. It was found that the aerosol layers caused a noticeable increase in brightness and could be observed from the spaceship as bands of enhanced

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UDC: 551.593.5

L 9580-66

ACC NR: AP6001974

brightness stretching along the day horizon. The contrast between the bands is not great and varies with increased wavelength and the height of the layer. In general, photographs of the Earth's surface taken from the Vostok and Voskhod spaceships show that the part of the planet illuminated by the sun appears in the light blue haze of light scattered by the atmosphere. Spaceship investigations of this type open new possibilities of identifying and studying aerosol layers in the stratosphere, the height distribution of ozone, water vapor, sodium, and other atmospheric components. Orig. art. has: 18 formulas and 5 figures. [DM]

SUB CODE: 04, 22 SUBM DATE: 16Jul65/ ORIG REF: 007/ OTH REF: 001  
ATD PRESS: 4164

*beh*  
Card 2/2

TRIFONOVA, Galya; BOGDANOV, A.

Notes of a naturalist. IUn. nat. no.9:37-38 S '58. (MIRA 11:10)

1. Staro-Yakushkinskaya semiletnyaya shkola, Kuybyshevskaya  
oblast' (for Trifonova).  
(Dogs) (Birds)

TRIFONOVA, G. G.

AID P - 504

Subject : USSR/Chemistry  
Card 1/2 Pub. 78 - 18/27  
Authors : Vishnevskiy, N. Ye. and Trifonova, G. G.  
Title : Rapid method of determination of asphaltenes  
Periodical : Neft. Khoz., v. 32, #6, 64-68, Ju 1954  
Abstract : The authors analyse two methods of determination of asphaltenes in crude oils. The first method, widely used in the All-Union Petroleum Scientific Research Institute for Geological Survey, consists in a coagulation process with precipitator and consequent filtration of sediments. The second method, predominately used in the Leningrad Scientific Research Institute and in many other scientific research institutes, has been developed for more rapid settling of asphaltenes by the centrifugal separation of heavier particles. The authors conducted study of the effects of various factors and found that (1) duration of 5 min. at 6600 rpm produces satisfactory separation, (2) rotating speed of 6600 rpm gives the best results and (3) an asphaltene content less than 10% requires two

AID P - 504

Neft. Khoz., v. 32, #6, 64-68, Ju 1954

Card 2/2      Pub. 78 - 18/27

changes in the precipitation and of more than 10% requires 3 or 4 changes, (4) total duration of the centrifugal tests with consequent analysis requires about 1 hour, in contrast with 3 to 8 hours required by the first method. One chart, 5 tables, 4 Russian references (1948-1953).

Institutions: All-Union Petroleum Scientific Research Institute for Geological Survey (VNIGRI) and the Leningrad Scientific Research Institute (Len NII).

Submitted      : No date



SANDOMIRSKIY, A. B.; AL'TOVSKAYA, N. P.; TRIFONOVA, G. I.

Brightness indicatrices at altitudes of 8 to 17.5 km. Izv.  
AN SSSR. Ser. Geofiz. no.6:958-966 Je '64. (MIRA 17:7)

TRIFONOVA, Galya

My friend. Un. nat. no.3:31-32 '59.

(MIRA 12:4)

1. Staro-Yakushinskaya shkola Sergiyevskogo rayona Kuyby-  
shevskoy oblasti.

(Olenek—Elk)

★ SANDQMIRSKIY, A.B.; AL'TOVSKAYA, N.P.; TRIFONOVA, G.I.

Seasonal course of brightness at altitudes of up to 17.5 km.

Izv. AN SSSR. Ser. geofiz. no.7:1121-1127 J1 '64.

(MIRA 17:7)

ROZENBERG, G.V.; SANDOMIRSKIY, A.B.; TRIFONOVA, G.I.

Luminance profile of the daytime horizon of the planet Earth.

Izv. AN SSSR. Fiz. atm. i okeana 1 no.12:1270-1278 D '65.

(MIRA 19:1)

1. Institut fiziki atmosfery AN SSSR. Submitted July 16, 1965.

ACHARKAN, V.A.; BARSKOV, I.M.; BIRYUKOV, I.S.; BORODINA, L.Ya.; BRENNER, M.M.;  
 GORELIK, B.Ye.; GUMEROV, M.N.; ZORKAYA, N.M.; IOYNTSEH, A.I.;  
 KAYDALOVA, O.N.; KAPUSTIN, Ye.I.; LEBEDEVA, M.A.; LESHKOVTSSEV, V.A.;  
 LYSSENKO, V.P.; MARKIN, A.B.; MIKHAYLOV, M.N.; NEST'YEV, I.V.; NECHAYEV,  
 N.V.; NIKOL'SKIY, A.V.; OSTROUKHOV, M.Ya.; PISARZHEVSKIY, O.N.;  
 POLUBOYARINOV, M.M.; POPOV, Yu.N.; PRASOLOV, M.A.; POKATAYEV, Yu.N.;  
 RIMBERG, A.M.; RYABOV, V.S.; SEMKOV, B.F.; SPERANSKAYA, Ye.A.; TAKOYEV,  
 K.F.; TRIFONOVA, G.K.; TROFIMOVA, V.I.; SHAKHNAZAROV, G.Kh.; SHKAREN-  
 KOVA, G.P.; SEMERLING, K.G.; EYDEL'MAN, B.I.; MIKAELYAN, E.A., red.;  
 MUKHIN, Yu.A., tekhn.red.

[U.S.S.R. as it is; a popular illustrated handbook] SSSR kak on est';  
 popularnyi illiustrirovannyi spravochnik. Moskva, Gos.isd-vo polit.  
 lit-ry, 1959. 462 p. (MIRA 12:2)

(Russia).

*TRIFONOVA, I.V.*

BUZAYEVA, V.D.; TRIFONOVA, I.V.; BEKKAREVICH, Ye.K.; KHRAMOV, A.V., red.

[Automatic control, telematics, instrument manufacture; an annotated bibliography] Avtomatika, telemekhanika, priborostroenie; annotirovannyi bibliograficheskii ukazatel' literatury. Moskva, 1956. 145 p. (MIRA 10:12)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.  
(Bibliography--Automatic control) (Bibliography--Remote control)

1

LA

Nephelometric method for determining nicotine. K. B. Likhomova. *Zashchita Trub* 8, 244 (1969). Add to drops of 1% salicylic acid and 3-4 drops of 10% HCl to equal parts of water in 2 beakers, then add 2 ml. of the test soln. to one beaker and to the other a standard nicotine soln. until an equal opalescence is obtained. The results are satisfactory. B. Z. Kanch

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

[illegible]



LAVROV, N.V.; TRIFONOVA, K.B.

Reaction of conversion of methane by water vapor as applied to the  
underground gasification of coals. Trudy IGI 11:75-81 '59.

(MIRA 13:6)

(Methane) (Water vapor) (Coal gasification, Underground)

7 R + 1000000 + K. E. A.

TABLE I BOOK CITATIONS

Abstracts must BEB. Institut gosyuchikh tekhnologiy  
Gazifikatsiya i gornye topliva (Fuel Gasification and Combustion) Moscow,  
Izd-vo AN SSSR, 1979. 227 p. (Series: Izv. Vuzov, Vol. 11) Karta Alip  
inscribed. 1,800 copies printed.  
M.: L. V. Larrov, M. of Publishing House: V. E. Pukhovskiy, Tech. Ed.:  
I. E. Korshak.  
REMARKS: This collection of articles is intended for scientific research workers  
and engineers studying combustion processes and solid fuel gasification.  
COMMENT: This collection concerns the theoretical and experimental study of the  
mechanism of chemical reactions occurring in combustion and gasification.  
Results of the isotopic method of studying the gas generating process and its  
reactions, and the reaction of carbon monoxide and heated coal are analyzed and  
the pilot plants used in this study are described. Reactions of coal combustion,  
coal oxidation, methane dissociation and conversion are discussed and their  
equilibrium constants given in tables. The processes of methane oxidation  
by oxygen and synthesis-gas production by oxidizing natural gas with the sub-  
sequent reduction of oxidation products by carbon are analyzed as is the ef-  
fect of the presence and of air on the burning process of powdered solid  
fuel. The utilization of heat in the process of gasification and its effect on  
gasification purposes is also discussed along with the principles of fluidization.  
Analysis, routine control and intensification of physical and chemical process-  
es by means of ultrasonic vibrations are also covered. No personalities  
are mentioned. References accompany all but the first article.

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LAVROV, N.V., doktor tekhn.nauk prof.; TRIFONOVA, K.B., kand.tekhn.  
nauk

Kinetics of the reaction of methane conversion in presence of  
contact coal. Podzem.gaz.ugl. no.3:10-14 '59.

(MIRA 12:12)

(Coal gasification, Underground) (Methane)

TRIFONOVA, K.B., kand.tekhn.nauk

Effect of steam on changes in producer gas composition in the synthesis section of an underground gas producer. Podzem.gaz,ugl. no.2:15-19 '59. (MIRA 12:9)

1. Institut goryuchikh iskopayemykh AN SSSR.  
(Coal gasification, Underground)

TRIFONOVA, K.B., kand.tekhn.nauk

Effect of aerodynamics of the gas flow on the gasification of solid  
fuel in porous media. Podzem. gaz. ugl. no.3:52-54 '58.

(MIRA 11:10)

1. Institut goryuchikh iskopayemykh im. G.M. Krzhizhanovskogo  
AN SSSR.

(Gas flow)

(Coal gasification)

LAVROV, N.V., doktor tekhn. nauk; TRIFONOVA, K.B., kand. tekhn. nauk

Methods of controlling the conversion reaction of carbon oxide  
by steam in producing industrial gas in an underground gas  
producer. Podzem. gaz. ugl. no. 2:35-38 '58. (MIRA 11:7)

1. Institut goryuchikh iskopayemykh im. G.M. Krzhizhanovskogo AN  
SSSR.

(Coal gasification, Underground)  
(Chemical reactions)

LAVROV, N.V., doktor tekhn.nauk; TRIFONOVA, K.B., kand.tekhn.nauk

Use of approximate chemical models to study the drifting of  
combustion centers. Podzem.gaz.ugl. no.1:18-23 '58.

(MIRA 11:4)

1. Institut goryuchikh iskopayemykh im. G.M. Krzhizhanovskogo AN SSSR.  
(Engineering models) (Combustion, Theory of)

IVANOV, V.M.; KANTOROVICH, B.V.; LEBEDEVA, G.Ye.; TRIFONOVA, K.B.

Prospects for using steam and gas processes for technological purposes.  
Trudy IGI 19:114-121 '62. (MIRA 16:4)

(Gas producers)



TRIFONOVA, K.B.; SURINOVA, S.I.

Separation of complex gas mixtures by a hypersorption process. Trudy  
IGI 16:363-366 '61. (MIRA 16:7)  
(Gases--Separation) (Adsorption)

LAVROV, N.V.; TRIFONOVA, K.V.

Using models to investigate the effect of various factors on the  
outline and rate of displacement of the combustion center. Trudy  
IGI 7:3-32 '57. (MLRA 10:6)  
(Coal gasification, Underground) (Geological modeling)

TRIFONOVA, L.

Sclerema and sceredema in premature infants. Suvren.med.,  
Sofia 6 no.5:67-77 1955.

1. Iz Nauchno-izsledovatel'skii institut po pediatrii (direktor,  
doks. A. Fikov)

(SCLEREMA NEONATORUM,

in premature inf.)

(INFANT, PREMATURE, diseases,  
sclerema neonatorum)

TRIFONOVA, L.F.

Content of microelements (copper, cobalt, and magnesium) in  
some soils of Novgorod Province. Vest. LGU 20 no.15:71-78 '65.  
(MIRA 18:9)

TRIFONOVA, L.F.; BOYCHUK, V.A.; VERBILSKIY, P.G.; PANTYUEHIN, A.I.

Characteristics of some soil forming rocks in the Valdai Hills  
and the Il'men' Lowland. Vest. LGU 20 no.3:115-125 '65.

(MIRA 18:2)

KEVORKIAN, A., d-r inzh., dots.; PEEV, P., inzh.; TRIFONOVA, M.,  
inzh., tekhn. nauch. sotrudnik

Studies on the unevenness of worsted semi-finished material.  
Trud Inst tekstil prom 4:3-26 '63.

1. Machinery and Electrotechnical Institute. Member of the Board of Editors, "Trudove na Nauchnoizsledovatel'skii institut po tekstilna promishlennost" (for Kevorkian).
2. Director, Scientific Research Institute of the Textile Industry (for Peev).

TRIFONOVA, M.

Organization of work determines its success. Sov. profsoiuzy 4 no. 9:48-  
51 S '56. (MIRA 9:10)

1. Predsedatel' tsakhkoma tsakhkha rolikovykh podshipnikov 1-go Gosu-  
darstvennogo podshipnikovogo zavoda imeni L.M. Kaganovicha.  
(Moscow--Bearing industry)

VOL'FSON, I.M.; YELIZAROV, V.S.; LOPATITSKIY, A.O.; OZERNOV, L.A.;  
TRIFONOVA, M.A.

Aerodynamic study of the operation of plane and annular cascades  
with TS-2A profiles developed by the Moscow Institute of Power  
Engineering. Trudy MEI no.47:31-36 '63. (MIRA 17:1)



L 19271-63

BDS

ACCESSION NR: AR3005085

S/0196/63/000/006/A015/A015

SOURCE: RZh. Elektrotehnika i energetika, Abs. 6A93

AUTHOR: Trifonova, M. A.

TITLE: Graphoanalytic computation of circuits with nonlinear elements

CITED SOURCE: Nauchn. zap. L'vovsk. politekhn. in-t, vy\*p. 88, 1962, 104-109

TOPIC TAGS: electrical circuit theory, nonlinear element circuit

TRANSLATION: The author considers an approximate graphoanalytic method of computing an alternating-current circuit with a single nonlinear element which, according to the author, permits the rapid determination of the amplitudes of output quantity harmonics. As examples we consider computations of the voltage-current characteristics of a coil with a steel core and a ferromagnetic frequency tripler in an open-circuit regime. Two illustrations. B. Yakhinson.

DATE ACQ: 23Jul63

SUB CODE: GE

ENCL: 00

Card 1/1

SMEKHOV, A.A., kand.tekhn.nauk; TRIFONOVA, M.G., inzh.; KLEYMENOV, Ye.I., inzh.

Ways for the mechanization and automatization of operations in freight agencies. Vest. TSNII MPS 19 no.3:12-17 '60. (MIRA 13:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta im. I.V.Stalina i Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

(Railroads--Management)

(Automatic control)

KRAVCHENKO, V.S., doktor tekhn.nauk; OBRAZTSOV, A.P., kand.tekhn.nauk;  
SEMENOV, V.M., kand.tekhn.nauk; KLEYMENOV, Ye.I., inzh.; TRIFONOVA,  
M.G., inzh.

Use of high-frequency currents for unloading frozen ores. Zhel.dor.  
transp. 42 no.11:63-64 N '60. (MIRA 13:11)  
(Ore handling) (Induction heating)  
(Railroads--Freight--Cold weather operations)

SADIKOV, P.P.; AMAN'YEVA, S.A.; LEBEDEVA, T.P.; SMIRNOV, Ye.K.; PRIGOROVSKIY,  
V.F., inzh., red.; TISHKOV, L.B.; KATOLICHENKO, V.A.; PANIN, A.V.;  
NOSKOV, Yu.A.; TRIFONOVA, M.G.; KLEYMENOV, Ye.I.; BOBROVA, Ye.N.,  
tekhn. red.

[Technical equipment for large general-purpose freight yards]  
Tekhnicheskoe osnashchenie krupnykh gruzovykh stantsii obshchego  
pol'zovaniia. Moskva, Gos.transp.zhel-dor izd-vo. 1958. 186 p.  
(Moscow, Moskovskii institut inzhenerov zheleznodorozhnogo  
transporta. Trudy, no.161) (MIRA 12:2)  
(Railroads--Yards--Equipment and supplies)

TRIFONOVA, M. KH.

A.P.BELCPOLSKII, ZhPKh, 4, 569-75, 1931

NOVIKOV, V.N.; TOLSTOV, L.K.; SEREBRYAKOVA, Ye.K.; SOKOLOV, B.M.; Prini-  
mal uchastiye: Melent'yev, Yu.I.; KAPGER, V.S.; ZORCHENKO, I.P.;  
KARPOV, K.F.; Kushnarenko, V.S.; SHEVCHENKO, L.I.; TRIFONOVA, N.  
I.; PODZHUNAS, V.A.; MASLITSKAYA, M.P.

Obtaining industrial naphthalene from the centrifugal naphthalene  
of the Gubakha Coke and Coal Chemicals Plant. Koks i khim. no.8:  
35-38 '62. (MIRA 17:2)

1. Vostochnyy uglekhimicheskiy institut (for Novikov, Tolstov,  
Serebryakova). 2. Gubakhinskiy koksokhimicheskiy zavod (for Soko-  
lov).

KLEPIKOV, Vitaliy Fedorovich; TRIFONOVA, N.A., red.; ABRAMOVA, Ye.A.,  
tekhn.red.

[Apartment house built in 30 days using combined production-line  
methods] Potokhno-sovmeshchennym metodom za 30 dnei. Rostov-na-Donu,  
Rostovskoe knizhnoe izd-vo, 1959. 65 p. (MIRA 13:7)  
(Rostov-on-Don--Apartment houses)

TRIFONOVA, N.A.

Hydrochemical characteristics of Uglich Reservoir according to the  
materials of 1955-1958. Trudy Inst.biol.vodokhran. no.4:321-327  
'61. (MIRA 14:10)  
(Uglich Reservoir--Water--Composition)



TRIFONOVA, N.A.

Winter hydrochemical regime of Ivan'kovo Reservoir. Trudy Inst. biol.  
vodokhran. no.3:306-313 '60. (MIRA 14:3)  
(Volga Reservoir--Water--Composition)

TRIFONOVA, N.A.

Determining the loss of total and mineral nitrogen from the bottom  
of Rybinsk Reservoir. Biul.Inst.biol.vodokhran. no.11:49-52 '61.  
(MIRA 15:8)

1. Institut biologii vodokhranilishch AN SSSR.  
(RYBINSK RESERVOIR—NITROGEN)

1515010VA, N. H.  
Subject : USSR/Geology

AID P - 1776

Card 1/1 Pub. 78 - 14/26

Authors : Sofronitskiy, P. A., Trifonova, N. A., and Mel'nik, I. M.

Title : Changed views on the geological structure of the Molotov-Kama River region

Periodical : Neft. khoz., v.33, no.3, 58-63, Mr 1955

Abstract : A detailed analysis is made of the stratigraphy, oil-bearing capacity and tectonic structure of the Molotov region west of the Urals in the basin of the Kama River.

Institution: None

Submitted : No date

SOFRONITSKIY, P.A.; TRIFONOVA, N.A.; MEL'NIK, I.M.

Exchange of views on the geological structure of the Kama Valley  
in Molotov Province. Neft.khoz. 33 no.3:58-63 Hr '55.  
(Kama Valley--Petroleum geology) (MLRA 8:6)

36766

S/081/62/000/001/063/067

B119/B101

15.11.14  
AUTHORS: Trifonova, N. A., Kozlov, P. M.

TITLE: Glues and pastes for gluing magnetic heads

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1962, 514, abstract  
1P92 (Tr. Vses. n.-i. in-ta zvukozapisi, no. 8, 1961, 87-94)

TEXT: Glues based on epoxy resins were obtained as a result of the development of glues, pastes, and the technology for gluing plates and cores of magnetic heads. Maleic anhydride (for ЭКС-2 (EKS-2)) or phenol formaldehyde resin (for ЭКС-Ф (EKS-F)) were used as hardeners. Quartz sand or marshalite are recommended as fillers for preparing ЭПС-1 (EPS-1) paste which hardens in the cold with polyethylene polyamines. ЭПС-2 (EPS-2) paste containing marshalite hardens with maleic anhydride only when heated. The percent content of filler does not affect the strength of pastes; the filler can be added according to the required consistency. EKS-2 and EKS-F glues harden at 140°C after 1 hr at least, EPS-2 and ЭПС-Ф (EPS-F) pastes after 6 hrs. A prolonged hardening time increases the heat resistance of pastes. The glues can be stored for 30 days at  
Card 1/2

Glues and pastes for ...

S/081/62/000/001/063/067  
B119/B101

normal temperature without losing their adhesive power; the adhesive power of pastes drops by 25 - 50% within 10 days. Colored pastes can be obtained by admixing dyestuffs. They are suited for marking magnetic heads. Methods for testing the shearing and tensile strength of glued joints are described. Results of strength tests of the developed glues and pastes are given. [Abstracter's note: Complete translation.]

Card 2/2

TRIFONOVA, Nina Fedorovna; CHEKULAYEVA, Zoya Danilovna; BEN'KOVA,  
N.P., doktor fiz.-mat. nauk, red.; BRONSHTEN, V.A., red.;  
MASEVICH, A.G., doktor fiz.-mat. nauk, red.; MOSHENTSEVA,  
I.I., red.; FLAKSHE, L.Yu., tekhn. red.

[English-Russian astronomical and geophysical dictionary]  
Anglo-russkii astrogeofizicheskii slovar'. Pod red. N.P.  
Ben'kovi, V.A.Bronshtena, A.G.Masevich. Moskva, Glav.  
red.inostr. nauchno-tekhn. slovarei Fizmatgiza, 1962. 512 p.  
(MIRA 16:4)

(English language--Dictionaries--Russian)  
(Astronomy--Dictionaries) (Geophysics--Dictionaries)

ACC NR: AP7002995

SOURCE CODE: UR/0413/66/000/024/0095/0096

INVENTORS: Borisovets, E. M.; Trifonova, N. M.

ORG: none

TITLE: Adjustable radial turbine. Class 46, No. 189645

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 95-96

TOPIC TAGS: turbine, turbine rotor, turbofan engine

ABSTRACT: The Author Certificate presents an adjustable radial turbine for, say, a turbo-cooler. The turbine contains a working rotor with a nozzle assembly, an intake spiral, and a volume regulator with its working organ mounted in the spiral. The working organ covers a set of nozzles (see Fig. 1). To lower the hydraulic resistance and to simplify the construction, the working organ of the volume regulator has the shape of a curved plate. One end of this plate is hinged in the spiral and the other

Card 1/2

UDC: 621.438-546.5



ACC NR: AP7002995

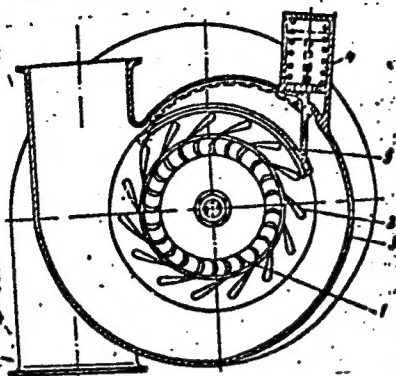


Fig. 1. 1 - working rotor;  
2 - nozzle assembly;  
3 - intake spiral;  
4 - volume regulator;  
5 - working organ of  
the volume regulator

is connected to the regulator. Orig. art. has: 1 figure.

SUB CODE: 21/  
10/

SUBM DATE: 23Nov65

Card 2/2

*TRIFONOV, Natal'ya Vasil'yevna*  
POMANSKIY, Boris Aleksandrovich [deceased]; FRIDMAN, Naum Yakovlevich; ALEKSAKHINA,  
Tat'yana Yur'yevna; TRIFONOVA, Natal'ya Vasil'yevna; BYAL'SKIY,  
A.L., red.; KVELCH, N.Ye., red.; BONDAREV, M.S., tekhn.red.

[Producing design on cloth; a manual for artists and masters]  
Tekhnologiya rospisi tkanei; posobie dlia khudozhnikov i masterov.  
Pod obshchi red. A.L.Bial'skogo. Moskva, Vses.koop.izd-vo, 1957.  
160 p. (MIRA 11:1)

(Textile design)

TRIFONOVA, L. L.

PHASE I BOOK EXPLOITATION

841

Moscow. Aviatsionnyy tekhnologicheskii institut

Metallovedeniye i tekhnologiya termicheskoy obrabotki (Physical Metallurgy and Technology of Heat Treatment) Moscow, Oborongiz, 1958. 179 p.  
(Series: Its: Trudy, vyp. 31) 3,200 copies printed.

Ed. (title page): Vishnyakov, D.Ya., Doctor of Technical Sciences, Professor;  
Ed. (inside book): Knyavskaya, T.M.; Tech. Ed.: Rozhin, V.P.;  
Managing Ed.: Zaymovskaya, A.S., Engineer.

PURPOSE: This book is intended for production engineers, physical metallurgists, heat-treatment specialists, and other scientific and technical personnel, as well as for advanced students.

COVERAGE: The book is devoted to the study of properties of heat-resistant alloys, the effect of steel structure on wear resistance, phase transformations and recrystallization in alloys, and also the effect of the conditions under which alloys are heat-treated on the structure and properties of the alloys. For references and additional coverage, see Table of Contents.

Card 1/8

Physical Metallurgy and Technology of Heat Treatment

841

TABLE OF CONTENTS:

Vishnyakov, D.Ya., Professor, Doctor of Technical Sciences; Maslennikov, B.F.,  
Engineer. Study of the Recrystallization Process in EI435 Alloy

5

The material investigated was a nickel-chrome-titanium alloy used in the manufacture of jet-engine exhaust pipes. Its chemical composition (in percent) is given as follows: Cr = 20.40; Ti = 0.21; C = 0.05; Mn = 0.44; Si = 0.40; Fe = 0.74; Cu = 0.05; Al = 0.04; S = 0.006; P = 0.004; Ni - remainder. The authors' conclusions, in part, are:  
1. It was established that the type of deformation (in tension or in rolling) does not qualitatively change the recrystallization pattern of the alloy. 2. At annealing temperatures of 1000-1050°C, two maxima of grain growth were observed: 0.2-5.0% in the case of small deformations, and 25-60% in large deformations. 3. It was noted that the critical degree of strain shifts in the direction of smaller strains with an increase in annealing temperatures. Two temperature intervals were observed where this rule operates: 900-1050°C and 1000-1200° C. 4. The minimum temperature (threshold) of recrystallization for EI435 is 700°C. There are 5 references, of which 4 are Soviet and 1 is German.

Card 2/8